MODELS

Compaq SW3322
Compaq SW3323
Dual-Speed Switches

Compaq SW3322
355300-B21

Compaq SW3323
355310-B21

The Compaq SW3322 and SW3323 are Compaq's high-density, dual-speed switches that enable high throughput for traffic within and between sites.

Overview

The ever-evolving corporate network and the exploding popularity of the Internet and high bandwidth desktop applications are driving the need for Fast Ethernet, work segmentation and traffic prioritization. High-performance and broad feature sets that address these needs are required.

The Compaq SW3322 and the SW3323 are Compaq's high-density, dual-speed Layer 2 switches that enable high throughput for traffic within and between sites.

When employed in conjunction with backbone solutions such as the Compaq 5411/5422 Gigabit Switches, the SW3322 and SW3323 are ideal for meeting the needs of today's high-performance networks. Their low cost and high port count make them cost-effective solutions for dedicated 10/100 Mbps connections to the desktop. Their extensive features provide the management needed for the workgroup and local backbone.

EASE OF USE

Auto-negotiation

Each RJ-45 switched port on the SW3322 and SW3323 automatically senses if it is a 10 MB/s or a 100 MB/s network and sets the appropriate speed upon connection, thus allowing for seamless communication among the Ethernet family of protocols. Customers then have the flexibility to maintain their current Ethernet infrastructure and add Fast Ethernet as necessary.

Diagnostic LED Indicators

Port LED Indicators on the switch display link and network activity for easy installation and troubleshooting.

Software Download

Switch software is stored in a 2-MB flashable ROM and can easily be upgraded by using the industry-standard Trivial File Transfer Protocol (TFTP) to download new software to the switch. Software can also be downloaded using the XMODEM protocol via the serial console port.

Performance

These dual-speed switches help address today's network requirements with outstanding performance and a broad feature set.

FAST ETHERNET PORTS

These IEEE 802.1D-compliant Ethernet switches support 24 IEEE 802.3u 100Base-TX Fast Ethernet ports. Each port can alternatively operate as an IEEE 802.3i 10Base-T port. The SW3323 also ships with a 2-port 100Base-FX module that, when installed, configures the SW3323 to support Fast Ethernet over fiber (IEEE 802.3u) on ports 1 and 2.

Full-Duplex Mode

Full-duplex mode allows the switch to transmit and receive data simultaneously, increasing throughput, as well as extending distances up to 2 Km with fiber.

Flow Control

The switch supports frame-based and back-pressure type flow control, which are configurable on a per port basis. For full-duplex flow control, the SW3322 is compliant with the IEEE 802.3x specification.

Class of Service

For optimal use with multimedia and other bandwidth-intensive applications, selected traffic passing through the switches can be assigned a higher priority and will not be hindered in flowing through during periods of high congestion.

SECURITY/RELIABILITY

Spanning Tree Protocol

The IEEE 802.1D Spanning Tree Protocol allows redundant connections to be created between different LAN segments, thus providing fault tolerance. The backup connection is only activated when the active connection fails.

Software Diagnostics

Extensive software diagnostics are available for product testing and troubleshooting.

Security

The user interface is password protected. A password can be set which would then be required to log-in and make changes to the switch (read/write).

In addition to the switch level security, the administrator can isolate and secure a segment of the network by using the "Discard" and "Forward" packet options in the forwarding table to designate specific treatment to MAC addresses by the switch.

NETWORK MANAGEMENT

Configuration and Management Interfaces

The switch can be managed using one of these three methods:

- Serial console management, out-of-band, through the use of a DB-9 connector, RS-232 connection, and a terminal or computer system running communications software
- Telnet, in-band, over Ethernet management of the switch through the use of TCP/IP protocols and an ASCII terminal or computer system running communications software
- SNMP-based network management, in-band, using standard agent MIBs that are embedded in the switch

RMON (Groups 1, 2, 3, and 9)

The SW3322 supports four of the nine groups of remote monitoring:

- Network traffic statistics
- Historical, or time-stamped, network statistics
- Alarm thresholds based on traffic statistics
- Events that will trigger when an alarm occurs

Port Mirroring

A protocol analyzer or RMON probe can be connected to any port in a group of eight, in order to mirror the traffic being switched on any port, for purposes of network traffic analysis and connection integrity.

Virtual LANs (VLANs)

By tagging each frame that indicates which VLAN it belongs to, users can be connected to a specific LAN segment regardless of their physical location. These switches use the IEEE 802.1Q draft standard.

Compaq Networking Management Software (CNMS)

For ease of management, CNMS is included with the switches, just like Compaq Insight Manager (CIM) is included with servers. CNMS incorporates richness of function and flexibility with intuitive graphical user interfaces (GUI) to make installation and monitoring of the Compaq Dual-Speed Switches effortless.

Easy-to-use TELNET and Web-based management are also provided, for more direct, hands-on management and configuration.

The Compaq Dual-Speed Switches can also be graphically managed under powerful management platforms, such as HP OpenView, IBM NetView, SunNet Manager, and Novell ManageWise using WinManager, a product of a close partnership with Ordinox Networks.

SPECIFICATIONS

SNMP-compliant Agents	MIB II (RFC 1213) Bridge MIB (RFC 1493) Ethernet MIB (RFC 1398) RMON (RFC 1757) Private MIB extensions
Standards Compliance	IEEE 802.1D (bridging/Spanning Tree) IEEE 802.1p (priority queuing and VLAN tagging) IEEE 802.1Q (VLAN support) IEEE 802.2 (LLC) IEEE 802.3u (100Base-TX and 100Base-FX) IEEE 802.3x (full-duplex/flow control)
LED Indicators	10Base-T/100Base-TX Ethernet ports – Link, Activity, Full-duplex, 100 MB/s speed 100Base-FX – Link, Activity System – Power, Test
Architecture	8-port 10/100 switch ASIC in a distributed switching architecture 4.2 GB/s internal switching fabric 12-MB packet buffering (512 KB/port) 4096 MAC address forwarding table per port; up to 16,684 addresses per system IEEE 802.3u auto-negotiation for full/half-duplex and 10/100 MB/s speed operation on all RJ-45 ports High-performance store-and-forward switching
Kit Contents	24 dual-speed 10Base-T/100Base-TX RJ-45 ports (MDI-X) (SW 3322 switch) 22 dual-speed 10Base-T/100Base-TX RJ-45 ports plus two 100Base-FX ports (SW3323 switch with optional fiber card installed) Power cord Rack mount kit Quick Install Guide CNMS/CIM CD ROM with Users Guide
Regulatory Testing	
Emission	FCC Part 15, Class A EN55022 (CISPR22:1985), Class A VCCI, Class A CISPR22
Immunity	EN 50082-1 – Immunity to Electromagnetic Disturbances IEC 801-2 – Electrostatic Air Discharge Susceptibility IEC 801-3 – Radiated Electric Field Susceptibility IEC 801-4 – Fast Transient Susceptibility
Safety	UL 1950 CUL 1950 B (CSA) IEC 950/EN60950 (TUV) CE Mark: 89/336/EEC, 93/68/EEC, 73/23/EEC-certified by TUV for compliance
Supported Cabling	100Base-TX – CAT5 UTP 100Base-FX – Multi-Mode 50/125 or 62.5/125 – Micron fiber optic cabling distance for half-duplex maximum 412 M, full-duplex 2Km

SPECIFICATIONS *(continued)*

Operating Environment	
Temperature	32° to 113°F/0° to 45°C
Humidity	5% to 95%, non-condensing
Storage Environment	
Temperature	–22° to 158°F/–30° to 70°C
Humidity	5% to 95%, non-condensing
Power Consumption	
Power Supply	100 to 240 VAC 50 to 60Hx 75VA
Weight	
Unit	10.5 lbs
Shipping	16.3 lbs
Dimensions	
Unit	17.1 x 16 x 1.75 in/43.43 x 40.64 x 4.45 cm
Shipping	21.75 x 19.5 x 8.13 in/55.25 x 49.53 x 20.65 cm
Warranty	Three-year limited warranty[1]

RELATED PRODUCTS

5411 Enterprise Gigabit Switch	338400-001
	338400-B31
5422 Enterprise Gigabit Switch	338350-001
	338350-B31
5450 Enterprise Gigabit Switch	338377-B21
5708TX Dual-Speed Switch	167050-001
5708FX Fast Ethernet Switch	167000-001
5226A Ethernet Switch	322900-001

[1] Certain restrictions and exclusions apply. Contact 1-800-345-1518 for details.